



INNOVATIVE SOLUTIONS FOR BATTERY MANUFACTURING

Your global engineering and local
service partner for Battery Solutions

ANDRITZ

Battery manufacturing by ANDRITZ.

We are your global engineering partner and service provider for battery manufacturing.

ANDRITZ is your global engineering partner for the new energy industry – delivering seamless efficiency, excellence, and reliability across the entire battery industry ecosystem with cutting-edge technology and customer-centric solutions.

We are shaping a world where battery technology unites innovation, efficiency, and sustainability to revolutionize the energy supply of the future. Our goal is to lead in battery manufacturing and actively drive the transformation of the new energy industry.

OUR STRENGTHS:



Efficiency

Backed by over 15 years of experience and strong collaboration with strategic partners, we deliver high performance lithium battery equipment and power electronics with low scrap rates and reliable operation.



Reliability

A trusted provider of equipment and turnkey solutions for over 180 years, combining proven European engineering with a global service network to ensure reliable and efficient worldwide support.



Innovation

Our portfolio integrates advanced digital technologies and is driven by strong involvement in European research and industrial networks, with continuous innovation through joint development programs with partners.



Sustainability

Continuous improvement and energy efficient solutions ensure long term investment value, environmental responsibility, and a reliable, sustainable choice for our customers.

When you choose ANDRITZ, you partner with a global leader in metals business, backed by engineering excellence, local support, and a century of innovation.

We don't just supply equipment. We help you achieve your production targets, meet sustainability goals, and stay competitive in a changing market. Our engineering teams, manufacturing capabilities, and service network are all focused on one thing: making your operations more efficient and profitable.

Lab & pilot lines for battery innovation.

Turning electrochemistry research into scalable battery cell technologies.

Developing next generation lithium-ion batteries requires flexible environments that support experimentation, rapid iteration, and stable process control. ANDRITZ delivers modular lab and pilot line solutions that help R&D teams, OEM innovation centers, ESS developers, institutes, and startups turn early ideas into validated products – efficiently, safely, and at scale.

Building on proven experience from the former Solith portfolio, developed by ANDRITZ Sovema, all systems follow ANDRITZ standards for quality, ease of use, cybersecurity, and sustainability, providing a reliable foundation for advanced cell technologies.

OUR LAB AND PILOT LINE PORTFOLIO INCLUDES:

- POUCH CELL ASSEMBLY SOLUTIONS
- CYLINDRICAL CELL ASSEMBLY SOLUTIONS
- PRISMATIC CELL ASSEMBLY SOLUTIONS



OUTPUT RANGE	Standard (mm)	Medium (mm)	Large (mm)
Height (H) – tab excluded	50-200	100-350	100-350
Width (W)	50-200	100-350	300-800

Process	100 Series	200 Series	300 Series
Loading	Manual	Single tray	Buffer
Process step	Automatic	Automatic	Automatic
Handling between process steps	Manual	Automatic	Automatic
Unloading	Manual	Single tray	Buffer

- Automation Level +

ON-SITE DRY ROOM FOR CELL MANUFACTURING TRIALS

Located at the ANDRITZ Sovema headquarters, the on-site dry room covers approximately 400 m² and operates at a dew point down to -50 °C, compliant with ISO Class 7 requirements. The facility is available for rent and can be used for equipment and material testing, as well as for pre-production trials and process validation, providing an ideal environment to support development activities under industrially relevant conditions.

Industrial solutions for lithium-ion cell manufacturing.

Large-scale manufacturing solutions, built for performance and reliability.

The global demand for high performance lithium-ion batteries continues to rise as e-mobility, energy storage systems, and advanced industrial applications accelerate. Manufacturers need reliable, scalable, and energy efficient processes to meet strict quality standards and growing production volumes.

As an international technology group, ANDRITZ supports battery producers worldwide by combining deep process know-how, state-of-the-art equipment, and decades of industrial automation expertise.

CELL ASSEMBLY

ANDRITZ focuses on high precision electrode notching and cutting, performed using either mechanical die or laser technology to ensure accurate separation. Across all assembly steps, ANDRITZ selects and integrates the most suitable technologies through a qualified partner network in Asia, providing a single, accountable solution from concept to commissioning. The overall scope includes the integration of stacking, winding, tab welding, sealing, and filling processes, with clear single point responsibility for engineering, system integration, and commissioning.



CELL FORMATION

ANDRITZ delivers proven, high efficiency formation plants with numerous installed references worldwide, supporting customers in validating performance, ensuring repeatability, and confidently scaling up production. The systems are designed for high measurement accuracy and stable process control, enabling consistent results throughout the entire formation stage. Energy efficient operation helps reduce total cost of ownership, while a robust industrial design ensures high availability, reliability, and ease of maintenance in demanding production environments.



Battery Testing Systems.

Defining battery performance, safety, and lifetime, supporting R&D and validation.

Battery performance, safety, and lifetime are defined long before a cell leaves the production line. The way batteries are tested, formed, and validated determines how they behave in electric vehicles, energy storage systems, and demanding industrial applications.

ANDRITZ provides advanced battery testing systems that give technical decision makers full control over their processes – from early development in R&D labs to high throughput production environments. Our solutions combine high measurement accuracy, robust industrial design, and energy efficient operation to support reliable quality decisions and reduce total cost of ownership.



DATA, DIGITALIZATION, AND INTEGRATION



- Central data acquisition and storage
- Interfaces for integration with existing IT/OT landscapes
- Real-time dashboards for process and asset monitoring
- Traceability across batches, lots, and individual cells
- Reporting tools to support audits and customer

ENERGY EFFICIENT AND SUSTAINABLE



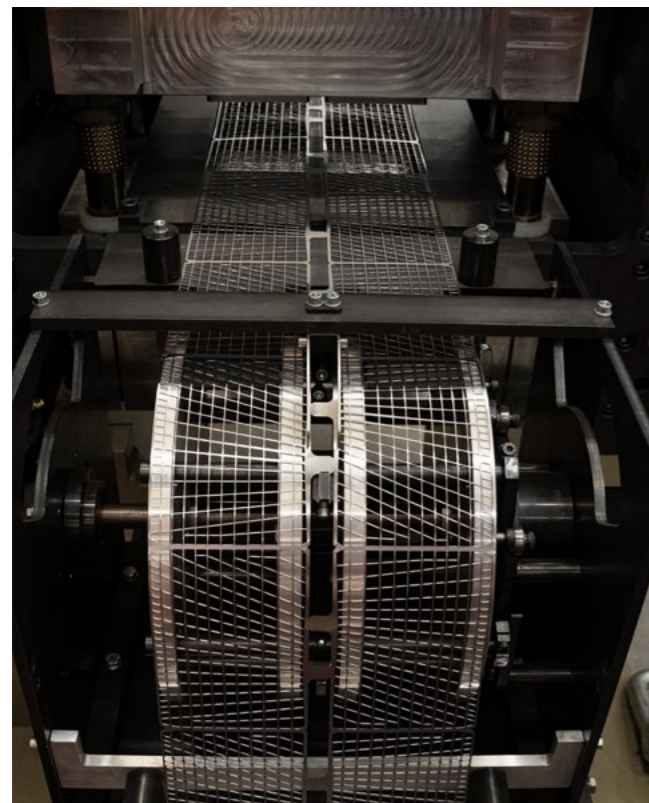
- Energy-optimized power electronics
- Intelligent distribution of loads and profiles
- Recovery and smart use of heat where feasible
- Minimized standby and idle consumption
- Designs that support long lifecycles and reduced waste

Lead-acid battery manufacturing solutions.

Turnkey solutions from raw material processing to ready-to-market batteries.

ANDRITZ Sovema offers fully customized turnkey solutions for lead-acid battery manufacturing, working in close partnership with our customers to design and deliver complete, integrated plants. From initial concept to final commissioning, we manage every stage of the project to ensure seamless execution and optimal performance.

- 20+ turnkey lead-acid battery plants delivered worldwide
- Tailored layouts to meet specific production needs
- Certified engineering and production
- Shipping and delivery worldwide
- On-site installation, training, and after-sales support
- Proven global presence with turnkey plants operating efficiently in multiple countries



SERVICE MADE FOR YOU

WHEN BUSINESS AS USUAL BECOMES TOTAL SATISFACTION. WE REDEFINE SERVICE.

ANDRITZ Schuler Service provides personalized, needs-based, and straightforward solutions made for you. Because the perfect service is precisely what you require. And that's what you'll get from us.

WE KEEP OUR SERVICE PROMISE.



Discover more: service.schulergroup.com



DISCOVER NOW HOW THE NEW ANDRITZ SCHULER SERVICE CAN BENEFIT YOU.



Quick help with your system
24/7 Hotline & Remote Support



Service centers worldwide
Field Service



Quick and easy
Spare Parts Service



For ANDRITZ Schuler or third-party presses
Smart Modernization Solutions



Remain flexible at all times in production
More than 400 Used Presses



Increase efficiency with digital solutions
Metris – Digital Solutions



Achieve your financial and ecological goals
Eco-Form Package & Energy Monitor



ANDRITZ GROUP

International technology group ANDRITZ provides advanced plants, equipment, services, and digital solutions for a wide range of industries, including pulp and paper, metals, hydropower, environmental, and others. Founded in 1852 and headquartered in Austria, the publicly listed group employs about 30,000 people at 280 locations in over 80 countries.

As a global leader in technology and innovation, ANDRITZ is committed to fostering progress that benefits customers, partners, employees, society, and the environment. The company's growth is driven by sustainable solutions enabling the green transition, advanced digitalization for highest industrial performance, and comprehensive services that maximize the value of customers' plants over their entire life cycle.

ANDRITZ. FOR GROWTH THAT MATTERS

ANDRITZ METALS

ANDRITZ Metals is one of the world's leading suppliers of technologies and plants for metal forming and processing, complemented by comprehensive automation and digitalization solutions as well as lifecycle services.

The product portfolio comprises advanced ANDRITZ Schuler press systems for all areas of metal forming as well as innovative technologies for battery production, including cell assembly, cell finishing, and testing. In the area of metal processing, ANDRITZ offers innovative, sustainable and market-leading solutions for the production of flat products, as well as welding systems, furnaces, burner technologies, and induction heating solutions.

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